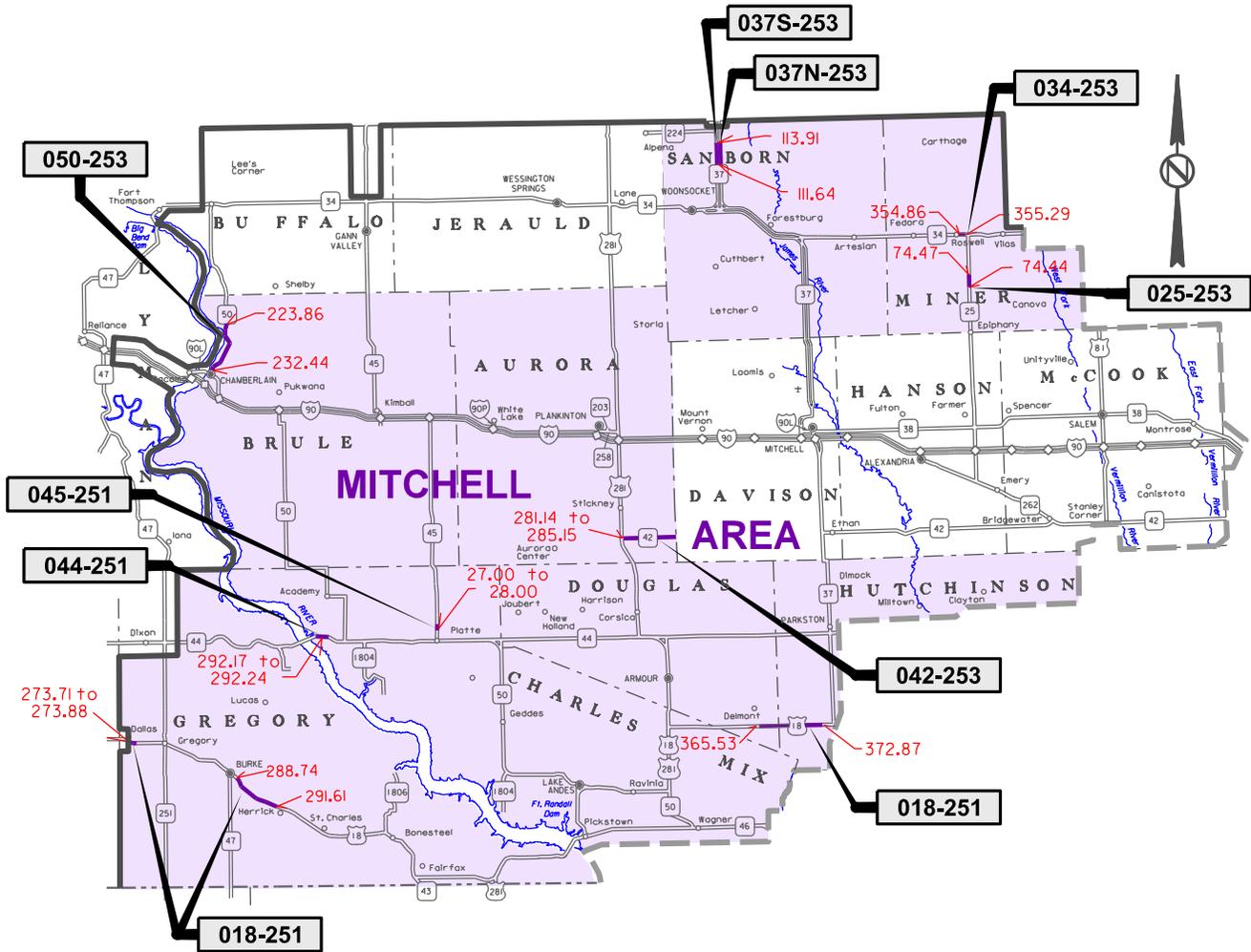


**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED**

**PROJECTS 018-251, 044-251, 045-251,
025-253, 034-253, 037N-253, 037S-253, 042-253 & 050-253
AURORA, BRULE, CHARLES MIX, DOUGLAS,
GREGORY, HUTCHINSON, MINER & SANBORN COUNTIES
SPOT ASPHALT CONCRETE RESURFACING
PCN I62T, I62U, I62V, I62W, I62X, I62Y, I63A, I63C & I63D**



018-251 ADT (2018)	1,202
044-251 ADT (2019)	816
045-251 ADT (2019)	1094
025-253 ADT (2019)	599
034-253 ADT (2019)	1,059
037N-253 ADT (2019)	1,600
037S-253 ADT (2019)	1,600
042-253 (2019)	181
050-253 ADT (2019)	4,871

STORM WATER PERMIT
(None required)

INDEX OF SHEETS

Sheet 1	Layout Map
Sheet 2	Index of Sheets
Sheets 3 & 4	Estimate of Quantities
Sheets 5 - 7	Environmental Commitments & Plan Notes
Sheets 8 & 9	Tables of Spot Asphalt Concrete Resurfacing

ESTIMATE OF QUANTITIES

018-251 PCN I62T

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	493.0	Ton
332E0010	Cold Milling Asphalt Concrete	2,400	SqYd

044-251 PCN I62U

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	239.0	Ton

045-251 PCN I62V

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	40.0	Ton

025-253 PCN I62W

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	33.0	Ton

034-253 PCN I62X

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	56.0	Ton

037N-253 PCN I62Y

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	69.0	Ton

ESTIMATE OF QUANTITIES (CONTINUED)

037S-253 PCN I63A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	33.0	Ton

042-253 PCN I63C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	281.0	Ton

050-253 PCN I63D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	134.0	Ton

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Section A Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <http://www.sddot.com/resources/Manuals/EnvironProcManual.pdf>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Office at 605-773-3098 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species waters within South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment to prevent and control the introduction and spread of invasive species into the project vicinity.

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of Aquatic Invasive Species in South Dakota can be accessed at: <http://sdleastwanted.com/maps/default.aspx>.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating No Dumping Allowed.
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

Cost associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

State Historical Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

Action Taken/Required:

All earth disturbing activities require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view of which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES (CONTINUED)

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities will immediately cease, and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office to determine an appropriate course of action.

The Contractor is responsible for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

GENERAL SCOPE OF WORK

Spot asphalt concrete resurfacing on various routes within the SDDOT Mitchell Area. See Tables in plans.

COLD MILLING ASPHALT CONCRETE

The Service Road located next to US 18 MRM 273.00 +0.710 to 273.00 +0.880 will be milled 24' wide. Cold milling depth will be 2" at the curb line and 1" at centerline.

Estimated quantities are for information purposes only and the exact quantity will be determined upon construction.

The cold milled asphalt concrete material will become the property of the Contractor.

Cold Milling Asphalt Concrete operations ahead of asphalt concrete laydown will be limited by particular job conditions and be subject to approval of the Engineer.

TRAFFIC CONTROL

All Traffic Control and Flagging will be provided by the SDDOT Maintenance Forces. The Engineer must be given a 48 hour notice before work is to begin on an individual route to coordinate the traffic control and flagging with the maintenance forces.

**018-251, 044-251, 045-251, 025-253, 034-253, 037N-253, 037S-253, 042-253 & 050-253
AURORA, BRULE, CHARLES MIX, DOUGLAS, GREGORY, MINER & SANBORN COUNTIES**

TABLES OF SPOT ASPHALT CONCRETE RESURFACING

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US18	273.00	0.710	273.00	0.880	BOTH	24	900	240*
US18	288.00	0.740	288.00	0.769	EB	12	153	17
US18	289.00	0.213	289.00	0.233	EB	12	106	12
US18	289.00	0.282	289.00	0.309	EB	12	143	16
US18	290.00	0.563	290.00	0.604	EB	12	216	24
US18	290.00	0.745	290.00	0.774	EB	12	153	17
US18	290.00	0.885	291.00	0.058	EB	12	913	101
US18	291.00	0.258	291.00	0.272	EB	12	74	8
US18	291.00	0.288	291.00	0.311	EB	12	121	13
US18	291.00	0.597	291.00	0.613	EB	12	84	9
US18	365.00	0.530	365.00	0.540	BOTH	24	53	12
US18	366.00	0.300	366.00	0.310	BOTH	24	53	12
US18	372.00	0.855	372.00	0.865	BOTH	24	53	12
018-251 Total Tons								493

*New asphalt concrete depth will be 2".

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD44	292.00	0.170	292.00	0.240	Both	35	370	239*
044-251 Total Tons								239

*Depth may be near 3" in the slide area.

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD45	27.00	0.55	27.00	0.573	BOTH	30	120	33
SD45	28.00	0.00	28.00	0.057	BOTH	24	30	7
045-251 Total Tons								40

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD25	74.00	0.440	74.00	0.468	BOTH	24	150	33
025-253 Total Tons								33

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	354.00	0.860	354.00	0.884	BOTH	24	125	28
SD34	355.00	0.290	355.00	0.314	BOTH	24	125	28
034-253 Total Tons								56

**018-251, 044-251, 045-251, 025-253, 034-253, 037N-253, 037S-253, 042-253 & 050-253
AURORA, BRULE, CHARLES MIX, DOUGLAS, GREGORY, MINER & SANBORN COUNTIES**

TABLES OF SPOT ASPHALT CONCRETE RESURFACING (CONTINUED)

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD37N	113.00	0.810	113.00	0.848	NB BOTH	24	200	44
SD37N	113.00	0.900	113.00	0.028	DRIVING	18	150	25
037N-253 Total Tons								69

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD37S	111.00	0.640	111.00	0.668	Both	24	150	33
037S-253 Total Tons								33

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
042-253	281.00	0.140	281.00	0.190	BOTH	24	275	61
042-253	281.00	0.480	281.00	0.523	EB	12	225	25
042-253	282.00	0.850	282.00	0.880	BOTH	24	160	36
042-253	283.00	0.100	283.00	0.130	BOTH	24	160	36
042-253	284.00	0.130	284.00	0.149	EB	12	100	11
042-253	284.00	0.490	284.00	0.542	BOTH	24	275	61
042-253	284.00	0.940	284.00	0.989	WB	12	260	29
042-253	285.00	0.150	285.00	0.188	EB	12	200	22
042-253 Total Tons								281

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	223.00	0.860	223.00	0.885	BOTH	24	130	29
SD50	223.00	0.930	223.00	0.949	BOTH	24	100	22
SD50	229.00	0.380	229.00	0.431	BOTH	24	270	60
SD50	232.00	0.440	232.00	0.479	NB	12	205	23
050-253 Total Tons								134

These quantities and locations are based on 1.5" depth. Final locations and dimensions will be marked by the Engineer and are subject to change.